# 2009 Cryptologic History Symposium

## *Global Perspectives on Cryptologic History*

### THURSDAY, 15 October 2009

**0700 — Registration Opens**

**0800-0830 — Day One Welcome and Keynote Address**

**Moderator**: **Dr. William J. Williams, Chief, Center for Cryptologic History**
"Conference Welcome and Introductory Remarks"

**Richard Talbott, Johns Hopkins University Applied Physics Laboratory**
"Information Assurance Lessons from the Past: World War II and Today"

**0830-0840 — BREAK**

**0840-1010 — Early Cryptography**
**(Concurrent Session 1-A)**
**Moderator: Jenny L. Brown, NSA (ret.)**

**Dr. Karl de Leeuw, Amsterdam Polytechnic and Dutch Science Foundation**
"The Use of Ciphers in the Dutch Republic"

**Dr. Steven Bellovin, Columbia University**
"Compression, Correction, and Confidentiality:
An Examination of Telegraph Codes"

**Klaus Schmeh, Senior Cryptographer, Cryptovision**
"Alexander Von Kryha and His Encryption Machines"

**0840-1010 — SIGINT and the East-West Confrontation**
**(Concurrent Session 1-B)**
**Moderator: Dr. Michael Warner, Chief Historian,**
**Office of the Director of National Intelligence**

**Carl G. Finstrom, Past President, Christopher Wren Association,**
**The College of William and Mary**
"Stella Polaris: The Exfiltration of Finnish COMINT Material"

**Laszlo Ritter, Institute of History, Hungarian Academy of Sciences, and the Zrinyi Miklos National Defense University**
"Hungarian Cryptology in the Early Cold War Period, 1945-1956"

**Dr. Peer Henrik Hansen, Roskilde University**
"David Among Goliaths:
Danish Military Intelligence during the Cold War – and Beyond"

**Dr. Thomas R. Johnson, Center for Cryptologic History (ret.)**
"American Cryptology During the Dark Ages"

## 0840-1010 — COMINT and Latin America
### (Concurrent Session 1-C)
**Moderator: Dr. William Nolte, University of Maryland**

**Jamie Bisher, Northrop Grumman**
"Disinformation, Distorted Intelligence, or Disquieting Cabal:
The 1920 U.S. Invasion Pact between Japan, Mexico, and Spain"

**Richard McGaha, Ohio University**
"ULTRA and the 'Secret War' in Latin America during World War II:
New Perspectives on the Bolivian Coup of 1943"

**Dr. Nicholas Gessler, Duke University**
"Cuban Number Stations and Espionage in the United States"

## 1010-1030 — BREAK

## 1030-1200 — World War II COMINT Collection and Support
### (Concurrent Session 2-A)
**Moderator: David H. Hamer, National Cryptologic Museum Foundation**

**Prof. Jerca Vodusek Staric, University of Maribor**
"Covert Contacts between Yugoslavia and the Allies, 1938-1945"

**Michael E. Bigelow, Command Historian,
U.S. Army Intelligence and Security Command**
"Army Radio Intelligence in the Mediterranean Theater of Operations"

**Joseph M. Balkoski, Command Historian, Maryland National Guard**
"The 29th Division and Consequences of Allied Intelligence
Failure on Omaha Beach"

**1030-1200 — Roundtable on Intelligence History Education**
**(Concurrent Session 2-B)**
**Moderator:  Dr. William J. Williams, Chief, Center for Cryptologic History**

**Dr. Craig Bauer, York College of Pennsylvania**
"The Early History of Teaching Cryptology"

**Dr. John Ferris, University of Calgary**
"Teaching Cryptologic and Intelligence History"

**Robert Heibel, Institute for Intelligence Studies, Mercyhurst College**
"The Value of Intelligence Studies"

**Dr. William Nolte, University Of Maryland**
"Comparing Intelligence Training Inside and Outside of Government"

**1030-1200 – Personalities and Policy in Cryptologic History**
**(Concurrent Session 2-C)**
**Moderator**:  Carol Davis, National Security Agency (Retiree)

**Thomas Hunnicutt, U.S. Marine Corps (ret.)**
"Alva Bryan Lasswell:  Pioneer of Marine Corps COMINT"

**Earl J. Catagnus, Jr., Temple University**
"General Alfred M. Gray, Jr.'s Intel-Centric Commandancy, 1987-1991"

**Richard Bernard, former Director, Defense Special Missile**
**and Astronautics Center (DEFSMAC)**
"Evolution of ELINT at NSA"

**1200-1310 – LUNCHEON**

**Moderator:  Dr. William J. Williams, Chief, Center for Cryptologic History**

**Walter H. Pincus, Senior Correspondent, *The Washington Post***
"Information Warfare in the Era of Terrorism"

**1310-1450 – New Evidence on VENONA**
**(Plenary Session)**

**Moderator:  Robert Louis Benson, Former Technical**
**Director for Counterintelligence, National Security Agency**

**Dr. Wilhelm Agrell, Lund University and Swedish National Defence College**
"Stockholm's VENONA:
Cryptanalysis, Liaison, and the Limits of Counterintelligence"

**Steven Usdin, Senior Editor, *BioCentury***
"The Rosenberg Ring Reconsidered"

**Dr. John Earl Haynes, Library of Congress**
**Dr. Harvey Klehr, Emory University**
"VENONA and Alexander Vassiliev's Notebooks:
Confirming and Correcting Cover Names and Revealing the Unidentified"

**1450-1515 – BREAK**

**1515-1700 – North Korea's Seizure of the USS *PUEBLO***
**(Plenary Session)**

**Moderator:  Dr. David Hatch, Center for Cryptologic History**

**Dr. Mitch Lerner, The Ohio State University - Newark**
"The *PUEBLO* Crisis in Historical Context:  The Latest Evidence"

**Richard Mobley, Commander, U.S. Navy (Ret.)**
"Intelligence Assessment and the *PUEBLO* Seizure"

**Stephen Harris, Harry Iredale, ex-USS *PUEBLO***
"Perspectives of the *PUEBLO* Crew"

# 2009 Cryptologic History Symposium

## *Global Perspectives on Cryptologic History*

### FRIDAY, 16 October 2009

**0700** — Registration Continues

**0800-0830** — Welcome and Day Two Keynote Address

Moderator:  Dr. William J. Williams,  Chief, Center for Cryptologic History

ADM William O. Studeman, former Director, National Security Agency
"History in Perspective"

**0830-0840** — BREAK

**0840-1010** — Roundtable on the North Vietnamese Infiltration Problem
(Concurrent Session 3-A)

Moderator:  Sharon Maneki, Center for Cryptologic History

Sharon Maneki, Center for Cryptologic History
"Out of the Horse's Mouth:  The Complexity of Wartime SIGINT"

Dr. John Prados, Senior Fellow, National Security Archive
"Frustration on the Ho Chi Minh Trail"

Walter "Joe" Abbott, National Security Agency (ret.)
"Infiltration and the Art of Discovery"

Thomas Fogarty, Former Technical Director, Foreign Affairs Directorate,
National Security Agency (ret.)
"Direct Support to Consumers during the Vietnam War"

**0840-1010** — Literary Reflections on Cryptology
(Concurrent Session 3-B)

**Moderator:  Betsy Rohaly Smoot, Center for Cryptologic History**

**Elonka Dunin, Simutronics Corporation**
"The Encrypted Art of Jim Sanborn"

**Kathryn Schwartz, Harvard University**
"The Academic, Poetic and Militarised Impetuses
behind Medieval Arabic Cryptology's Development"

**Richard Belfield, Fulcrum TV**
"The Story Behind the Shepherd's Monument Inscription at Shugborough Hall"

**Tim Carver, Trine University**
"Source Literature for the Study of U.S. Cryptologic History"

**0840-1010 — COMINT in Maritime History
(Concurrent Session 3-C)**

**Moderator:  Dr. Kent Sieg, Center for Cryptologic History**

**Matt Zullo, U.S. Navy (ret.)**
"The U.S. Navy's 'On-The-Roof Gang':
A Case Study in Successful Intelligence Transformation"

**LCDR Michael Bennett, U.S. Coast Guard Academy**
"OSS Use of Coast Guard Listening Stations"

**Mark Wise, National Defense Intelligence College**
"SIGINT in the Capture of U-505"

**1010-1030 — BREAK**

**1030-1200 – Technological Development of 20<sup>th</sup> Century Encryption
Systems (Concurrent Session 4-A)**

**Moderator:  Dr. Timothy Mucklow, Center for Cryptologic History**

**Dr. Chris Christensen, Northern Kentucky University**
"Lester Hill's Message Protector"

**Marie-Jose Durand-Richard, Equipe LAGA, Universite Paris 13**
"How Probability Theory Transformed Cryptanalysis in
Shannon's Investigation of Secrecy Systems"

**Dr. Peter Hill, Cranfield University at the Defence Academy of the U.K.**
"Claude Shannon and Algorithm Development in Communications Security"

**1030-1200 — SIGINT and the Wars to Contain Communism in Asia
(Concurrent Session 4-B)**

**Moderator:  David P. Cooley, Center for Cryptologic History**

**Jean-Marc Le Page, Institut d'etudes Politiques de Paris**
"French Cryptology during the Indochina War"

**Maj. Patrick Roe, U.S. Marine Corps (ret.)**
"The Ghost Armies of Manchuria: Chinese COMINT Deception during the Korean War"

**John Milmore, Independent Computing Consultant**
"Korean War SIGINT:  First-Hand Perspectives"

**1030-1200 — Breaking the ENIGMA
(Concurrent Session 4-C)**

**Moderator:  Charles V. Brown, National Security Agency (ret.)**

**Dr. Dominik Landwehr, Director, Popular
and New Media, Migros-Genossenschafts-Bund**
"The 'Myth' of the ENIGMA"

**Dr. Robin Barr, American University**
"Engineering the ENIGMA:  LCDR Richard Cragg and the Naval
Code and Signals Laboratory, 1941-1945"

**Jeff Wenger, Independent Scholar**
"Admiral J.N. Wenger and the Technology that Broke ENIGMA"

**1200-1310 — LUNCHEON**

**Moderator:  Barry Carleen, Publications, Center for Cryptologic History**

**Dr. Whitfield Diffie, Visiting Professor, Royal Holloway College,
University of London**
"A History of Key Management:  From the Mechanical Age to the Quantum Future"

**1310-1450 – COMINT Programs during the Interwar Years
(Plenary Session)**

**Moderator:  Dr. David Kahn, Former Scholar-in-Residence,
Center for Cryptologic History**

**Dr. Jozef Straczek, Assistant Director, Directorate of Classified Archival Records Review, Australian Department of Defence**
"Development of SIGINT in the Royal Australian Navy, 1914-1941"

**Dr. Marcus Faulkner, King's College London**
"Organization and Role of the *B-Dienst* in the Interwar *Kriegsmarine*, 1919-1939"

**Dr. John Ferris, University of Calgary**
"Interwar Anglo-American Intelligence Operations in the Pacific"

**Dr. Phyllis L. Soybel, College of Lake County**
"'We Need Give Nothing Away':  Winston Churchill and Anglo-American Exchange of Signals and Human Intelligence between 1939-1941"

**1450-1515 — BREAK**

**1515-1700 — Cryptology in the Six-Day War:  A Historical Retrospective (Plenary Session)**

**Moderator:  Dr. David Hatch, Center for Cryptologic History**

**Gideon Remez, and Isabella Ginor, Research Fellows, Truman Institute, Hebrew University**
"How Much Did They *Really* Know?
Reassessing Intelligence Performance during the Six Day War"

**James Scott, Neiman Fellow, Harvard University**
"Unanswered Questions about the *LIBERTY*"

**Dr. A. Jay Cristol, Chief Judge Emeritus, U.S. Bankruptcy Court**
"The *LIBERTY* Incident:  What Do the NSA Intercepts Really Prove?"